TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2019-08-29-97**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 31/07/2019

Date of test : 31/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/07/2019	31/07/2019	150.32 X 149.90 X 150.22	22534	8.371	408.3	18.1	18.3
2	Drain Bottom Slab Concrete	M20	24/07/2019	31/07/2019	149.98 X 151.43 X 151.59	22711	8.567	419.6	18.5	
3	Drain Bottom Slab Concrete	M20	24/07/2019	31/07/2019	149.71 X 151.35 X 150.93	22658	8.695	412.3	18.2	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig. Date BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-97** **Date: 21/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, Ist N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	24/07/2019	21/08/2019	151.11 X 151.72 X 150.31	22926	8.810	528.7	23.1	23.0
2	Drain Bottom Slab Concrete	M20	24/07/2019	21/08/2019	149.98 X 151.57 X 149.69	22733	8.675	519.5	22.9	
3	Drain Bottom Slab Concrete	M20	24/07/2019	21/08/2019	151.80 X 151.70 X 151.97	23027	8.631	530.5	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-97** **Date: 05/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	149.52 X 149.28 X 149.71	22320	8.371	422.9	18.9	18.5
2	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	149.22 X 150.56 X 151.65	22466	8.567	410.2	18.3	
3	Drain Side Wall Concrete	M20	29/07/2019	05/08/2019	151.51 X 151.14 X 150.94	22900	8.695	417.4	18.2	

Note:
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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-08-29-97

Date: 30-07-19

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Nisarga Layout in Ward No.03, Attur.

Agency : Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/71/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-19

Sample Type /Size : Precast Cover Slab(100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 26/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-29-97 **Date: 30/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Nisarga Layout in Ward No.03, Attur.

Agency : Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/71/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2019	30/07/2019	151.44 X 151.35 X 149.81	22920	8.416	293.9	12.8	12.9
2	PCC	M15	23/07/2019	30/07/2019	151.65 X 149.34 X 149.74	22648	8.912	292.1	12.9	
3	PCC	M15	23/07/2019	30/07/2019	150.04 X 149.38 X 149.77	22413	8.582	288.1	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-97** **Date: 20/08/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	23/07/2019	20/08/2019	151.10 X 150.30 X 151.56	22711	8.359	400.5	17.6	17.5
2	PCC	M15	23/07/2019	20/08/2019	149.38 X 149.31 X 149.43	22304	8.812	385.9	17.3	
3	PCC	M15	23/07/2019	20/08/2019	151.62 X 149.42 X 149.66	22655	8.780	397.3	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-29-97 **Date: 31/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Nisarga Layout in Ward No.03, Attur.

Agency : Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/71/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 31/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/07/2019	31/07/2019	149.71 X 150.52 X 150.17	22535	8.371	421.0	18.7	18.5
2	Drain Bottom Slab Concrete	M20	24/07/2019	31/07/2019	149.09 X 149.42 X 149.15	22276	8.567	403.5	18.1	
3	Drain Bottom Slab Concrete	M20	24/07/2019	31/07/2019	151.23 X 151.47 X 149.47	22907	8.695	430.4	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-29-97

Date: 21/08/2019

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Nisarga Layout in Ward No.03, Attur.

Agency : Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/71/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/07/2019	21/08/2019	151.13 X 150.41 X 151.97	22732	8.810	523.5	23.0	23.0
2	Drain Bottom Slab Concrete	M20	24/07/2019	21/08/2019	149.17 X 150.01 X 150.13	22377	8.675	503.6	22.5	
3	Drain Bottom Slab Concrete	M20	24/07/2019	21/08/2019	151.73 X 150.89 X 149.86	22894	8.631	537.3	23.5	

Note:

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-29-97** **Date: 18-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
	Pan	224	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-29-97**
		Date: 18-07-19
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	54	80	8.0	92.0	60-95	75-100	85-100	95-100
4	1.18 mm	240	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	200	520	52.0	48.0	15-34	35-59	60-79	80-100
6	300 micron	201	721	72.1	27.9	5-20	8-30	12-40	15-50
7	150 micron	191	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-29-97** **Date: 22-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	20-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-29-97** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
	Pan	265	15000	100.0	0	---

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-29-97** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	248.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Sample will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-29-97** **Date: 14-08-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Nisarga Layout in Ward No.03, Attur.
Agency	:	Sri.R.Ranganath, No:37, 19th Cross, 1st N Block, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/71/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

Note:
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Page 1/1
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